IV. PROJECT DESCRIPTION **Office use only** LOG 88

Make a copy of this page for each request listed on page 2.

Applicant Organization's Legal Name: Experimental Television Center Ltd.

AKA:

The information in this box should correspond to the information for the appropriate request summary box on page 2.

Request B NYSCA Program ☐ APD ☐ DNC ☐ FLM ☐ IND ☐ ASO ☐ MAP ☐ POP ☐ THT ☐ AIE ☐ DEC ☐ FLK ☐ LIT ☒ TVM ☐ MSC ☐ SAS ☐ VAP

☐ First Time Applicant to This Program

Funding Category: TVM 95 Equipment and Workspace Access

For: Processing System Development

Total Cash Expenses: 9000 NYSCA GRANT AMOUNT REQUESTED: 9000

Is this a Multi-Year Support request? ☒ No ☐ Yes

Contact person for this project: Ralph Hocking Daytime Telephone: 607/687-1423 687-5045

If not ongoing, what is the anticipated date for this project? 7.1.87-6.30.88

Project will take place at (address): Experimental Television Center Ltd.

City: Owego County: Tioga NY Zip: 13827

This proposal concerns the continued development of the electronic image processing system through the Research Program at the Center.

Over the past several years, the Council has assisted the Center with research projects which have resulted in the design and construction of a six channel colorizer, a sequencer/keyer, analog control system and a frame buffer. All have been installed in the Image Processing System in the studio at the Center and are used by artists participating in the Residency Program. The Center recently added an Amiga computer to the image processing system, along with commercially available software for paint, animation and music/audio synthesis applications. This system was chosen because of its ease of use, the availability of graphics and cinematic software and its power and speed. Because many individual artists and arts organizations are purchasing this computer, it is becoming a kind of standard. It outputs a standard, recordable video signal and therefore fits into the existing system without extensive modification. The Amiga can also be used with MIDI-compatible devices.

In its present configuration, the buffer is a 16 page black and white buffer. The Center is presently funding the development of several additional boards and modifications to this buffer, including a color mapping board and an I/O or input/output board which allows communication between the buffer and the computer. We estimate that the Center will provide about $4,000 for expenses and in-kind services for the project.

The present proposal consists of a number of hardware and software projects which together will expand the functions of both the buffer and the computer. Among these are the interconnection of the buffer and the Amiga, the development of computer control of the color mapping and memory in the buffer and the development of a still-image printing program for the new system. As much as is possible, we plan to adapt the existing computer programs which have been written over the years for use with the previous computer/buffer devices.

The following are simple examples of how the proposed hardware/software developments might be used by artists. By placing the buffer under the control of the computer, an artist has access to the order of imagery within sequences of up to 64 frames or pages and can repeat with precision any sequence. It would also be possible to grab an image or series of images with the buffer, then use the stored series with the existing animation software, for example, to rotate a grabbed image around the horizontal or vertical axis, shrink, enlarge or perform other sizing functions. As noted, the Center has already supported the development of a color map board for the buffer. Using the color mapping board, which provides over 4000 colors, and customized software the artist could place color very precisely, or perform global switching moves, for example changing all red to yellow.

The second component of this project is the purchase of several externally syncable color cameras for use with the system and of a MIDI-compatible audio systhesis/control system to augment the analog/audio generating devices we have already installed in the system.